

TABLE OF CONTENTS

A Message From the Secretary	i
Executive Summary	1
Introduction	
What is the Toxics Release Inventory?	2
Reporting Requirements	2
Limitations of TRI Data	4
Recent Developments in TRI Reporting	5
2007 Data Summary	
Data Summary	6
Types of Data	6
On-Site Releases	
Releases to Air	7
Releases to Water	8
Releases to Land	9
Off-Site Transfers	10
On-Site Waste Management	11
Total Waste	12
2007 Data Detail	
On-Site Releases by County	13
TRI Facility Locations	14
NAICS Industry Groups	16
Releases From Top 15 Facilities	17
Releases From Second 15 Facilities	29
Persistent Bioaccumulative Toxic (PBT) Chemicals 2000-2007	37
Mercury and Mercury Compounds	39
Carcinogenic TRI Chemicals	40
Carcinogen Trend, 1998-2007	40
Trend Analyses	
Effect of Chemical and Facility Group Additions, 1990-2007	44
On-Site Releases, 1998-2007	45
Off-Site Transfers, 1998-2007	47
On-Site Waste Management, 1998-2007	48
Receiving TRI Chemicals in Wastes	49
Pollution Prevention/Reduction Programs in Delaware	50
National Perspective	51
Nearby Facilities in Adjacent States	52
International "TRI"	54
For Further Information	55

TABLE OF CONTENTS, Continued

Appendices

- Appendix A - What is Community Right-to-Know?
- Appendix B - Facility Addresses and Contacts
- Appendix C - 2007 On-Site Releases by Facility and Chemical
- Appendix D - 2007 Off-Site Transfers and Waste Managed On-Site by Facility
- Appendix E - 2007 On-Site Release Summary by Facility (Ranked by On-Site Release)
- Appendix F - 2007 On-Site Releases by Chemical and Facility
- Appendix G - 2007 Off-Site Transfers and Waste Managed On-Site by Chemical
- Appendix H - 2007 On-Site Release Summary by Chemical (Ranked by On-Site Release)
- Appendix I - 2007 PBT Release and Transfer Detail (Alphabetical by Chemical)
- Appendix J - 2007 Carcinogen Release Detail (Alphabetical by Chemical)
- Appendix K - Common Toxic Chemicals and Their Hazards
- Appendix L - Glossary and Acronyms
- Appendix M - TRI Reporting Form R
- Appendix N - TRI Reporting Form A

TABLES APPEARING IN THIS REPORT

Tables

Table 1: Covered Industries	3
Table 2: 2007 TRI Data Summary	6
Table 3: TRI Chemicals Released to Water by Water Body	8
Table 4: TRI Chemicals Released to Water by Basin	9
Table 5: 2007 TRI Data by Primary NAICS Group	16
Table 6: Top 15 Facilities 2006 and 2007 Ranking by On-Site Release	17
Table 7: PBT Chemicals and Reporting Thresholds	37
Table 8: 2007 TRI PBT Data Summary	38
Table 9: 2007 TRI PBT Release Summary	38
Table 10: Carcinogens Reported by Delaware Facilities for 2007	40
Table 11: 1998-2007 TRI Carcinogens, On-Site Releases	41
Table 12: 1998-2007 TRI Data Summary, Unadjusted	46
Table 13: Summary of Transfers to Delaware Facilities From Other Facilities	49

TABLE OF CONTENTS, Continued

FIGURES

APPEARING IN THIS REPORT

Figures

Front Cover: This is a DNREC photograph of the frozen earth storage unit at the Premcor Delaware City refinery. Only the roof of the unit is visible above ground.	
Figure 1: 2007 On-Site Releases	7
Figure 2: Top 15 Chemicals Released to Air	7
Figure 3: Top 15 Chemicals Released to Water	8
Figure 4: Top 15 Chemicals Released to Land	10
Figure 5: 2007 Off-Site Transfers	10
Figure 6: 2007 On-Site Waste Management	11
Figure 7: Total 2007 TRI Chemical Management	12
Figure 8: TRI On-Site Releases Reported by County	13
Figure 9: TRI Facility Locator Map	14
Figure 10: Top 5 NAICS Industries for 2007	16
Figure 11: 2007 On-Site Releases, Top 15 Facilities	17
Figure 12: Top 15 Facilities On-Site Release	28
Figure 13: 2007 On-Site Releases Reported by Second 15 Facilities	29
Figure 14: Second 15 Facilities, On-Site Release	36
Figure 15: Delaware Mercury Trends, On-Site Releases, All Facilities	39
Figure 16: 2007 On-Site Mercury Releases From Delaware Facilities	39
Figure 17: Total On-Site Releases, All Carcinogens, 1998-2007	41
Figure 18: Air, Water, and Land All Carcinogens, 1998-2007	42
Figure 19: Total Carcinogen On-site Release, 1998-2007	42
Figure 20: Effect of Chemical and Facility Group Additions, 1990-2007	44
Figure 21: Total On-Site Releases, 1998-2007	45
Figure 22: Off-Site Transfers, 1998-2007	47
Figure 23: Off-Site Transfers, 1998-2007	47
Figure 24: On-Site Waste Management, 1998-2007	48

A MESSAGE FROM THE SECRETARY

The Department of Natural Resources and Environmental Control is pleased to present the Toxics Release Inventory (TRI) Report for the reporting year 2007. DNREC publishes this report as part of our efforts to inform citizens about environmental issues in their communities. This is the 21st year of TRI data collection. The program has proven to be successful as a non-regulatory way to encourage pollution prevention and reductions of toxic chemical releases. It is no surprise that when properly motivated and encouraged to innovate, Delaware companies have demonstrated continued progress in increasing efficiency and reducing their releases of toxic chemicals.

The 2007 data summarized in this report are encouraging. The Delaware City (Premcor Oil) Refinery and the Georgetown Perdue facilities reported significant reductions in nitrate compounds released to water. These facilities reflect a trend towards greater accuracy and decreased releases. Compared to 2006 reported releases, Delaware's 2007 total on-site TRI releases declined by four percent. Reported releases to water and land were down 17% and 48%, respectively. Reported releases to air, however, were up 9%, which was caused primarily by the increased production at the power plants, and the resulting increase in releases of acid gases. The long term trend, since 1998, shows a decrease of more than ten percent. Also, the trend for on-site releases of carcinogenic compounds continues downward with the total amount of on-site releases for all carcinogens falling by 150,000 pounds, 39 percent less than reported for 2006, and by 625,000 pounds, or 73 percent less than for 1998. In the future, emissions from power plants will also be significantly reduced when compliance with our multi-pollutant regulations is achieved.

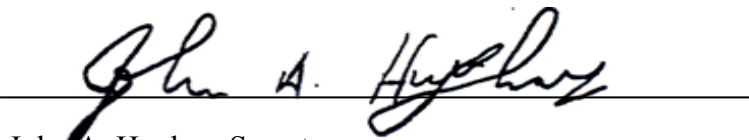
This TRI report shows progress in two important areas: increased accuracy and decreased emissions across a broad front. Instead of relying on estimates, Delaware's TRI facilities increasingly use results from directly monitored data. For 2006, the use of such direct data revealed higher than estimated nitrate compound releases from the Premcor refinery. For 2007, Premcor further increased their water sampling to get better data over time, and the facility-reported discharge of nitrate compounds to the Delaware River decreased by 424,000 pounds. At Evraz Claymont Steel, although other methods were used to estimate releases, reported releases of mercury to air decreased by 50 pounds, or 16 percent, for 2007.

Despite concerns by states and others, the TRI program was modified by a Federal rule allowing more facilities to report on the TRI short Form A, beginning in the 2006 reporting year. This "short form" provides only general information and does not report any quantitative amounts. Through their initiatives and outreach efforts of DNREC's TRI program, Delaware companies have trended away from use of this "short form" and continue to provide detailed TRI data to the public.

We publish two TRI documents annually: This more technical *TRI Data Detail Report* and the shorter *Data Summary Report*, a more compact, less technical report. These reports and reports for recent years are available at DNREC offices and also through the public information link at <http://www.serc.delaware.gov/epcra.shtml>. Specific facility data from 1995-2007 are also available at the above web site, and the ***Other Sources of Information*** section of this report provides details about the many other DNREC and EPA Internet sites devoted to community right-to-know.

I urge you to take advantage of the information in this report to learn about the management of chemicals in your community. I also encourage our industrial citizens to continue to reduce releases below today's levels and focus on providing a safer and more healthful environment for our future.

Sincerely,

A handwritten signature in dark ink, reading "John A. Hughes", is written over a horizontal line.

John A. Hughes, Secretary,
Department of Natural Resources and Environmental Control